John John

	Application No.	Applicant(s)	
Notice of Allowability	09/502,718	CHERKASOVA ET AL.	
	Examiner	Art Unit	
	Chau Nguyen	2176	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED ir or other appropriate commu IGHTS. This application is s	n this application. If not includ unication will be mailed in due	ed course. THIS
1. \boxtimes This communication is responsive to $04/27/2004$.			
2. The allowed claim(s) is/are <u>1-12</u> .			
3. \boxtimes The drawings filed on <u>11 February 2000</u> are accepted by the	he Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to the deponant of t	e been received. e been received in Application cuments have been received of this communication to file MENT of this application. iitted. Note the attached EXA as reason(s) why the oath or set be submitted. Son's Patent Drawing Review. s Amendment / Comment or 1.84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	on No In this national stage applicated in this national stage applicated in this national stage applicated in the reply complying with the replacement of the drawings in the front (not the R 1.121(d). ERIAL must be submitted.	quirements NOTICE OF
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. Interview Si Paper No./ 98), 7. Examiner's	formal Patent Application (PT ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allo	

Art Unit: 2176

REASONS FOR ALLOWANCE

1. The following is a statement of reasons for the indication of allowable subject matter:

In interpreting the claims in light of the specification and applicant's arguments, the Examiner finds the claimed invention is patentably distinct from the prior art of record.

The prior art of record, Yu, US Patent No. 6,351,775, DeBettencourt et al (DeBettencourt), US Patent No. 6,279,011, and Desai, Patent No. 6,434,608, teach the invention substantially as claimed.

Yu discloses a cluster server including a plurality of servers, requesters nodes request services from the server cluster via a network, denote SA(j) as the number of requests for object classed assigned to server j, and meta information with requested objects can also be applied to a conventional DNS routing in the Internet to improve load balancing in a server cluster (Abstract, col. 6, lines 31-36, col. 7, lines 18-37, col. 9, lines 27-33). Yu's invention also can be adapted to a hierarchical mapping of object identifiers (URL) to the group of servers in the cluster (col. 11, line 54 – col. 12, line 63).

DeBettencourt discloses a traffic management subsystem for distributing web page requests to the web servers including a monitor for collecting and storing information related to the requests for web pages, the monitor includes a manager receiving web page request information from one or more agents each in communication with at least one of the web servers, and the request information is sent

Application/Control Number: 09/502,718

Art Unit: 2176

to the manager at a periodic time interval, for example, every 30 seconds (Abstract, col. 1, line 66 – col. 2, line 55, and col. 10, lines 1-16). DeBettencourt also discloses assigning a value to each web server which is a relative evaluation of the load capacity of that web server (the difference in the sum of said measured computational resources is within a first predetermined error value) (col. 22, line 37 – col. 23, line 33).

Desai discloses tracking request objects in a table in which it tracks objects for which at least one cache miss has occurred, and an object is only cached if it has been requested at least twice (Desai, col. 3, lines 14-44).

Claim 1 is allowed because the prior art of record does not expressly disclose alone or in combination "grouping the sites into N groups, each group being assigned to a corresponding one of the server nodes such that for each pair of groups, a difference in the sum of said measured computational resources is within a first predetermined error value". Examiner finds the specification in pages 6-7 to be persuasive since applicant describes sites are partitioned into groups, each of which is assigned to a node, such that the most popular files of all sites are distributed equally among all the nodes or the sum of sizes of the popular files includes in each group is nearly the same, and also the computational workload imposed on each node is nearly the same.

2. The dependent claims 2-12 further limit independent claim 1. Therefore, claims 2-12 are considered allowable for the same reasons set forth for claims 1.

Application/Control Number: 09/502,718

Art Unit: 2176

3. Any comments considered necessary by applicant must be submitted no later

than the payment of the Issue Fee and, to avoid processing delays, should preferably

accompany the Issue Fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chau Nguyen whose telephone number is (703) 305-

4639. The Examiner can normally be reached on Monday-Friday from 8:00 am to 6:00

pm.

. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's

supervisor, Joseph Feild, can be reached at (703) 305-9792.

The fax phone numbers for the organization where this application is assigned

are as follows:

(703) 872-9306 (After Final Communications only)

(703) 872-9306 (Official Communications)

(703) 746-7240 (for Official Status Inquiries, Draft Communications only)

Inquiries of a general nature relating to the general status of this application or

proceeding should be directed to the 2100 Group receptionist whose telephone number

is (703) 305-3900.

Chau Nguyen Patent Examiner Art Unit 2176 JOSEPH H. FEILD PRIMARY EXAMINER Page 4